Res Mechanica **30** (1990) 389–390

CONTENTS OF VOLUME 30

Number 1

Foreword 1

Preface 3

Dynamic Simulation of Dislocation Pattern Formation in Metals During High Temperature Monotonic and Cyclic Deformation 5
ROBERT J. AMODEO (USA)

Number 2

Hydrogen Effects on the Properties and Fracture Modes of Iron-Based Alloys 143
N. R. MOODY, S. L. ROBINSON & W. M. GARRISON, JR (USA)

Impact Test Data Obtained by Analysis of High Speed Camera Films 207
D. AQUARO & G. FORASASSI (Italy)

Announcements 221

Number 3

Prediction of Ratchetting and Creep Effects at Room Temperature on 304 Stainless Steel 223
D. NOUAILHAS (France)

Experimental and Numerical Analysis of Fluid–Structure Interaction Effects in a Fast Reactor Core 243
ALESSANDRO MARTELLI, MASSIMO FORNI, RICCARDO MELLONI, ROBERTO PAOLUZZI, GIUSEPPE BONACINA, ALDO CASTOLDI & MAURIZIO ZOLA (Italy)

Fragility Assessment of Containment Tangential Shear Failure 291
HOWARD H. M. HWANG, SUSAN E. PEPPER & NILESH C. CHOKSHI (USA)

Announcement 303

Res Mechanica (**30**) (1990)—© 1990 Elsevier Science Publishers Ltd, England. Printed in Northern Ireland

Number 4

Numerical Analysis of Pipe Impact on Reinforced Concrete Structures . . . 305
N. K. PRINJA (UK)

Identification of Influences on Common Cause Failure Data Evaluation . . . 333
P. DÖRRE & H. SOBOTTKA (FRG)

Heavy Interaction Problems in Floor Response Spectra 353
L. LAZZERI & G. VITI (Italy)

Strain-Rate Dependence of Residual Strength and Ductility of AISI 316 Stainless Steel after Creep, Fatigue and Irradiation 361
C. ALBERTINI & M. MONTAGNANI (Italy)

Regulatory Perspective on Seismic PRAs and Margin Studies 377
R. H. VOLLMER, L. C. SHAO, N. C. CHOKSHI & A. C. THADANI (USA)